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ABSTRACT

A distributed processing, interactive computer network and method of operation is described. The network is designed to provide very large numbers of simultaneous users access to large numbers of applications which feature interactive text/graphic sessions. The network includes one or more host computers having application data stores; a plurality of concentrator computers, also including application data stores, the concentrator computers being connected in groups of one or more to each of the host computers; and a plurality of reception system computers connected in groups of one or more to each of the concentrator computers, the reception system computers being arranged so that respective users can request interactive applications at the reception system computers. In accordance with the design, the reception system computers also include application data stores. The method for operating the network includes steps for generating the interactive text/graphic sessions from objects that include data and/or program instructions. Additionally, the method features steps for distributing objects among the data stores of the network computers, and, thereafter, permitting the reception system computer at which an application is requested to selectively collect objects required for the application from the network and the respective reception system so that the requested application may be presented at the reception system based on the objects collected. This operation decreases processing demand on the higher-level network elements, permitting them to function primarily as data supply and maintenance resources, thereby reducing network complexity, cost and response time.